**FORM PV.7**
**Effective: 10-1-15**

# Photovoltaic Calculation Worksheet

## Inverter information:

1. Are DC/AC Converters used? Yes_____ No_____
2. DC/AC Converter Model #: _____
3. Max A/C Output Current: _____
4. Amps Max # of DC/AC Converters in an Input Circuit: _____
5. DC/AC Converter Max DC Input Voltage: _____
6. Volts Max AC Output Current: _____
7. Volts DC/AC Converter Max DC Input Power: _____ Watts

## Sizing Inverter Output Conductors & PV Breaker:

1. Sizing Inverter Output Circuit Conductors and OCPD
2. Inverter Output OCPD rating = _____ Amps (Table 1)
3. Inverter Output Circuit Conductor Size = _____ AWG (Table 1)

| **Table 1. Minimum Inverter Output OCPD and Circuit Conductor Size:** | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Inverter Continuous Output Current Rating (Amps) | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 48 |
| Minimum Breaker (OCPD Size) (Amps) | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 60 |
| Minimum Conductor Size (AWG), (90°C, Copper) | 14 | 12 | 10 | 10 | 8 | 8 | 6 | 6 | 6 |

## Point of Connection to Utility

1. Only load side connections are permitted with this plan.
2. The PV Breaker is positioned at the opposite end from input feeder location or main Breaker location.
3. The Max Combined PV System OCPD(s) at 120%.

| **Table 2. Maximum Combined Supply OCPDs Based on Bus Bar Rating (Amps) per CEC 705.12(D)(2)** | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Bus Bar Rating | 100 | 125 | 125 | 200 | 200 | 200 | 225 | 225 | 225 |
| Main Breaker OCPD | 100 | 100 | 125 | 150 | 175 | 200 | 175 | 200 | 225 |
| Max Combined PV System OCPD(s) at 120% of Bus Bar Rating | 20 | 50 | 25 | 60* | 60* | 40 | 60* | 60* | 45 |
| Max Combined PV System OCPD(s) at 100% Bus Bar Rating | 0 | 25 | 0 | 50 | 25 | 0 | 50 | 25 | 0 |

***This value has been lowered to 60 A from the calculated value to reflect 10 kW AC size maximum. Reduction of the main breaker is not permitted with this plan.**